HEAVY BOMBER

Configuration I

FLYING WING TYPE

Model XB-36ℊ

Designed By Wilhelm F. Schult
for
Convair in 1942 for Comparison to the XB-36.

No Refuelling

~ PERFORMANCE ~

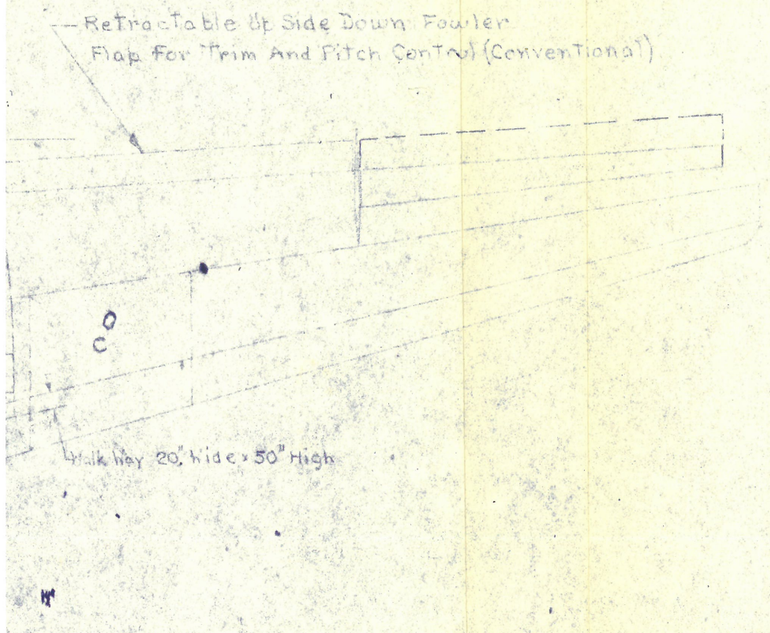
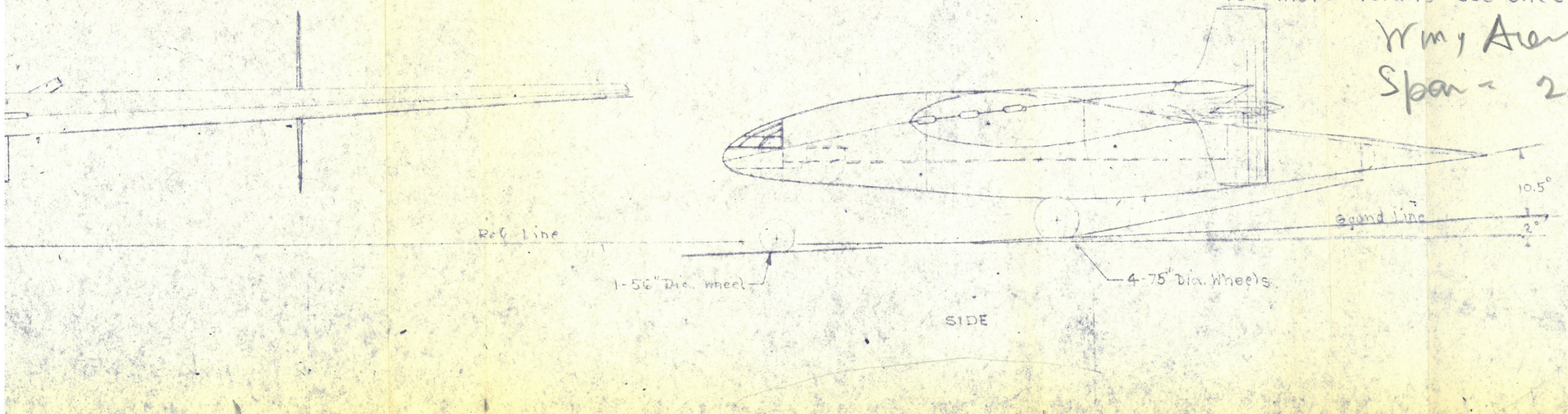
Power = 6-3000. B.H.P. Wasp Major Engines Supercharged to 30,000.' Altitude
Short Range = 2,310. S. Miles, Pay Load = 72,000. lbs Bombs, 6108 lbs Ammunition
Long " = 10,000. " " " " = 10,000. " " " "
V_{max} @ 30,000.' Altitude = 409. S.M.P.H. (Theoretical Critical Speed)
Gross Weight (Normal C.G. = 23.7% m.a.c.) = 1251,460. lbs
Note:- Max. C.G. variation @ 30,000.' from 15.7% to 23.7% m.a.c. (All controls in neutral)
Aft shift of C.G. = 2.5% m.a.c. when dropping 38,000. lbs of Bombs from forward compartment
Foreward shift of C.G. 2.3% m.a.c. when " 34,000 " " " aft "
Fuel and Oil capacity as shown on drawing is for 10,000. mile range
Duration 42.38 Hrs (1.76 hours reserve)

AROUND THE WORLD @ THE EQUATOR @ 30,000.' NON STOP, NON REFUELING

No Refuelling

Configuration II
Model S-33
Redesigned in Aug. 1963

~ PERFORMANCE ~

Power = Same as XB-36ℊ Configuration I
Range (Flying @ $\frac{L}{D}_{max}$ = 24,909. S.M., Duration = 95.72 Hrs. (1 Hr. Reserve) (No Payload)
" " min. power = 24,135. " " " = 99.50 Hrs. " "
V_{max} @ 30,000.' Altitude = 375. S.M.P.H. (Theoretical Critical Speed)
Gross Weight (Normal C.G. 23.7% m.a.c.) = 430,000. lbs
Note:- Added Fuel; 2A = 3,516. gals, 2B = 12,440. gals, 2C = 15,610. gals.
" Oil, 2D = 1253. gu.
Since fuel + oil is located on the C.G. of the airplane there is no shift of the C.G. regardless of capacity.
For more details see sheets 2, 3, 4, & 5

Wing Area = 7630. □'
Span = 288.'